

**The Carolina DX
Association**

The Pileup

HAMFEST EDITION

Carolina DX Association



MARCH-APRIL, 1993

BILL TAYLOR - KD4IL - EDITOR

From The Presidents Desk

February 1993

PRESIDENTIAL PONDERINGS

As the Charlotte Hamfest approaches, I see the CDXA a buzz with preparatory works, and I'm impressed with all the folks pitching in. Our Quarterly meeting will be held again this year at **Valentino's Saturday night March 13th (7:00PM)**. We will have hot and cold finger foods and a cash bar. A \$10 per person fee will be collected at the door. CDXA will fund the remainder. You also might like to join us **Friday Night at Trio's on Hwy 51 in Pineville (7:00PM)**. We will gather there for an informal dutch treat meal to visit with our out-of-town guests and our local folks too.

The CDXA booth will likely be located in the exact same spot as it was last year. As of this writing, Robert gives pretty reliable odds on the location, but there is still some shuffling going on. So anyway, find us and say "Hey" ! Paid up members will be offered a special service this year. CDXA will be providing the opportunity for you to have your packet radio deviation set by our own KOSD. I said radio deviation, not other deviations you all may possess. So here is what you must bring: Radio & power cord, radio manual, cords to your TNC, TNC power cord and manual. CDXA members are providing: DC Power Supply, laptop computer w/RS-232 cord, PL-259 cable, and a Dummy Load. All this together with some super dooper high tech whatzit that Stephen is bringing from his employer. This is a Saturday only deviation adjustment thing. Bring your stuff, pay your dues (if still outstanding), and Stephen will do his thing sometime during Saturday (the 13th). Aren't you glad it isn't Friday, and that out technician's name isn't Freddy.

Plans are also to have InstaTrac, a satellite tracking program working. Ask WA4PLR and AA4SC anything you want about all that space stuff. For those out there who haven't seen the PacketCluster in action, come on down and check it out. All in all, I believe you will really enjoy visiting our booth. If you would like to help man the booth, please let Rick, AA4SC know of your desires. No, not THOSE desires, just your willingness to help out.

Don't forget the Wednesday lunches at Shoney's Midtown Square Mall at noon. It's fun! Also watch for details of our next Technical meeting coming soon. Our last one was a "stroke of genius" GROUNDED in great information by W4BZ.

See ya'll at the Hamfest!

73 Joe WD4R

Charlotte Hamfest & ComputerFair

Saturday Forums March 13

- 11:00 **SINGLE-OP CONTESTING**
K1AR, John Dorr - CQ
- 12:15 **VHF OPEN FORUM**
W3EP (QST) & N6CL (CQ)
- 2:30 **PHASED VERTICAL ARRAYS**
K8UR/4, Dennis Mitchell
[President - ComTek, Inc.]

SUNDAY FORUMS MARCH 14

- 10:00 **WIRE and CABLE**
N8UG, Press Jones
[The Wireman, Inc.]
- 11:15 **DESECHEO ISLAND, 1993**
Ron Oates, AA4VK/KP5
Murray Adams, WA4DAN/KP5
- 12:15 **DXCC QUESTIONS & ANSWERS**
Gary Dixon, K4MQG
* Chuck Hutchinson, K8CH

* Special Notice: Chuck, K8CH,
specified no more than 110 QSL's per
person for DXCC verification.

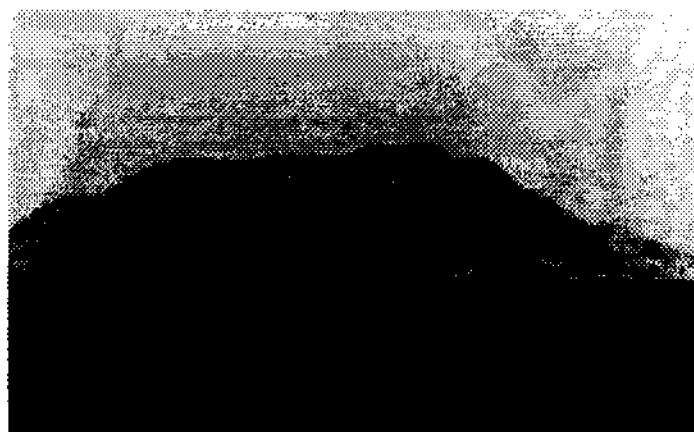
DX Net Report From AGKD4IL AG4L 9-Feb-1993 0031Z Pile-Up Net Report

My first net report begins as we cover the period from January 6 through February 3, 1993. Many have checked in over this period. Our average attendance increased to 19.6, up from 13.6 the last quarter of 1992.

Those with perfect attendance during this period were: N4DDZ, WA4SSI, N4UH, N4ZC, and AB4ZM. Those missing only once were: KC4DBY, K4HJE, K4UAS, KD4VKC, WB4WVV, and N4YDT.

I hope the net will continue to grow. Come on out and join us each Wednesday evening at 8:30PM local time on the 147.36 Mhz. Boone, NC repeater. Let's talk DX. All are welcome. Gud DX and CU on the net.

Bruce, AG4L



DESECHEO ISLAND - 1993

Five DEDICATED DX'ers departed KP4 on December 28th and headed into rough waters to make the trip to Desecheo. Landing at KP5 wasn't much better, as one of the dingys—with equipment—was flipped by the Winter surf. If that wasn't enough.. the next morning, some 'unwelcome' visitors to the island had carried off the group's spare generator and gasoline.

A NICE PLACE TO VISIT! However, these are just small problems for fearless DXpeditioners. 4 1/2 days later the group had amassed 23,000 QSO's, including 650 on RTTY and 200 on 160 Meters.

For more on this exciting trip, join Ron — AA4VK/KP5—and Murray — WA4DAN/KP5 —at the Charlotte Hamfest (Sunday @ 11:15 AM).
(WA4VCC)

PacketCluster News

The PacketCluster system is running fairly well now after York Electric was able to find and fix a MAJOR noise problem in the KD4IL neighborhood. Work is progressing on the 9600 baud backbone with several system now up. We will have a complete report on the new backbone in the Next Pileup.
Bill Taylor KD4IL

Hamfest Happenings



NEW DIRECTOR OF MARKETING FOR CQ COMMUNICATIONS, INC. TO GIVE PROGRAM ON SINGLE-OP CONTESTING.

John Dorr, KIAR—who has recently accepted the position of Director of Marketing for CQ Communications, Inc.—will be at the Charlotte Hamfest representing CQ magazine, as well as presenting a program on Saturday morning (11AM) on ideas and helpful hints in preparing for a contest, the actual operating of a contest and the wrap-up activities of a contest. This forum will be skewed to the single operator, both experienced and the newcomer.

KIAR's credentials as a contest aficionado, include 15 Single-Op Championships (USA) in major DX contests, participation in many winning multi-efforts, has logged over 170,000 contest QSO'S since 1979 and is the Contest Editor of CQ Magazine.

John received his BSEE/MSEE degree from the University of Massachusetts, was licensed in 1969 as WA2LQZ and is currently a member of the Honor Roll, with all countries confirmed.

(WA4VCC)

AN INTERESTING CONCEPT: A FORUM CHAIRED BY BOTH QST & CQ

If you're interested in chasing DX on 6 meters or working a ZS6 over a 500,000 mile path (EME) ...the VHF OPEN FORUM (Saturday @ 12: 15 PM) stacks-up to be a good one.

This forum will be led by Emil Pocock, W3EP/1, VHF Editor for QST and Joe Lynch, N6CL/5, VHF Editor for CQ Magazine.

W3EP was licensed in 1961, received his PhD in History from Indiana University and currently is on the faculty at Eastern Connecticut State University. Emil is responsible for numerous published works and presentations on weather and radio propagation. He has his WAS on 6, as well as 95 countries confirmed on that band.

N6CL was first licensed in 1960, received his MBA in Marketing from Oklahoma City University, and is currently an instructor for the FAA in Oak city. Likewise, Joe has written a number of articles for Communications Quarterly and Sky and Telescope magazines. Although a dedicated VHF op, N6CL has just completed his 5BDXCC. (WA4VCC)

COAX, HARDLINE, BALUNS, ANTENNA WIRE, TUNERS, ETC

Ever wondered about the right balun to use on a beverage antenna? Or, whether this new flexible coax is worth the money? Join N8UG, Press Jones (The Wireman) for an informal, tech session about Wire and Cable at the Charlotte Hamfest (Sunday @ 10:00 AM).

N8UG has been heavily involved in the design and manufacturing of wire and cable for the Amateur and Commercial market for the past 10 years. 'The Wireman' brings his experience and savvy to this Q&A session, along with his answers to the 10 most common misconceptions. A copy of the WIREBOOK will be given to each person attending this forum.

Press was first licensed in 1975 and is the President of Certified Communications, Inc

(WA4VCC)

RUSSIAN SATELLITE RS12 -- Henry Elwell, N4UH

An easy introduction into satellite operation may be done with normal HF equipment: 15m transmitting and 10m receiving equipment. RS-12/13, as it is known, is a Russian satellite launched 4 February 1991 into a low Earth orbit: about 120 miles above the Earth. It uses a 15m uplink and a 10m downlink. Signals from it are usually strong, and most users call "CQ RS12" when accessing the satellite to avoid confusion with other terrestrial 15 meter activity. Many more years of service are expected from RS-12.

The satellite has a north to south orbit which progresses westwardly during its 90 minute flight around the Earth. Thus its first orbit might be at a bearing of 90 degrees from Salisbury, and its next one would be about 270 degrees. Because of the curvature of the Earth, and its low altitude, the time it is in "sight", is approximately 10 minutes. Knowledge of when it can be heard at various times of the day may be obtained from a computer program: QUIKTRAK is one of a number of different programs available.

The way it works is to listen on 29,407 kHz at the appointed time to hear the beacon on the frequency. The beacon is a small transmitter, which is continually transmitting code group interspersed with its call, "de RS12". When it is heard, tune between 29,410 to 29,450 kHz, and you will hear cw or ssb signals either calling CQ or in a contact with another station. No signals will have been heard prior to this time as the frequency range is so high in the 10m band, it is not used except for satellite work.

To be a part of the activity, your transmitter must be putting out a signal between 21,210 and 21,250 kHz. Your signal goes to the satellite receiver on those frequencies, and transmits on the 10m frequencies; similar to the operation of a 2m repeater, for example. The nice thing about it is if you are transmitting on 21,225 kHz, your 10m signal will fall on the 225 kHz portion of the 29 MHz frequency: ie. 21,225 to 29,225 kHz, or 21,247 to 29,247 kHz.

Operation can be done by two ways. If you have a separate transmitter for 15m, and a receiver for 10m, you will need separate antennas, of course; dipoles running north/south would be best to give lobes to the east and west. If you have a newer transceiver with split band capability, only one antenna is required. At N4UH, the Kenwood TS-850 permits setting a transmitting frequency on 15m, and a receiving frequency on 10m; the proper band is automatically selected when going from transmit to receive. A triband Yagi, TH7DX, permits transmission and reception for either band.

When the beacon is heard, a "CQ RS12 de N4UH" is sent out on the 15m band at say, 21,230 kHz. The receiver is then

tuned to 29.430 kHz to listen for a reply. If one is heard, a contact is made, but kept short due to the 10 minute access time to the satellite. Or, if I hear someone calling CQ on 10m, say on 29.218 kHz, I tune the transmitter to 21.218 kHz, and give him a shout. So far I have had contacts with the States of CA, MN, NH, CT, AL, NC, MD, NJ, IN, MO, plus a couple of Canadians, and a Cuban.

When the maximum usable frequency, MUF, is higher than the 15m band, and European signals are coming in when the satellite is available, their signals on the second or third bounce between the ionosphere and Earth will get into the satellite receiver and be transmitted into the 29 MHz band in the same fashion a direct signal will do so. When the MUF is lower than 15m, that cannot happen.

RS12 is a unique satellite because it is "flving" above the ionosphere. It is interesting to speculate on its signal strength when the ionosphere is between it and Earth due to a high MUF, and its strength at night or whenever the ionosphere has not formed due to an MUF lower than 21 MHz. I have worked stations under both conditions, but it seems as if the night signals are stronger. Another interesting phenomena is noted by my friend NM7M, who is studying its propagation features. He has found, and I have heard, the satellite signal "coming back to life" twenty minutes after it has passed the Salisbury area. Bob says that we are hearing a one-hop return from the satellite as it passes over the Equator. Its signal at that point is too weak to use for communications because of the low output of its transmitter.

Included is the schedule for RS12 during the first two weeks of February with the following comments. AOS means acquisition of signal, LOS is loss of signal, and the time is given in UTC. DX/EL is the elevation of the satellite from our location. If it is less than 25 degrees, it is probably too far away to give good signal strengths. The AZ is the bearing or azimuth of its location. When around 270 degrees, it is in the west of us, and around 90, it is to the east of us, for those using directional antennas. When it is to the east, it is out over the Atlantic ocean, and stations along the east coast will probably be the only ones heard. To work the western States, the satellite must be in the westerly direction.

Give RS12 a try. See if you can hear the beacon on 29.407 kHz. Then listen to stations in contact between 29.410 and 29.450 kHz. Because the stations being heard are being retransmitted by RS12, you will be able to hear both sides of the QSO without regard to the skip-distance. As long as you can hear RS12, you will hear everything it is hearing and retransmitting.

The next step is to arrange your station so you can transmit on 15m and join in the fun.

6

SCHEDULE FOR SATELLITE RS-12/13 FOR NAUH FROM EPOCH 13MAR93 041517 01:32

| DATE | AOS | MAX | LOS | EPOCH | DX/EL | AZ | ORBIT |
|---------|--------|--------|--------|---------|-------|-----|-------|
| 13MAR93 | 054522 | 055356 | 060230 | 13MAR93 | 41 EL | 273 | 10535 |
| 13MAR93 | 073534 | 073747 | 073959 | 13MAR93 | 1 EL | 288 | 10536 |
| 13MAR93 | 154635 | 155156 | 155716 | 13MAR93 | 7 EL | 77 | 10541 |
| 13MAR93 | 172734 | 173620 | 174506 | 13MAR93 | 71 EL | 89 | 10542 |
| 13MAR93 | 191520 | 192236 | 192953 | 13MAR93 | 15 EL | 292 | 10547 |
| 14MAR93 | 024446 | 024949 | 025453 | 14MAR93 | 5 EL | 62 | 10547 |
| 14MAR93 | 042757 | 043649 | 044540 | 14MAR93 | 53 EL | 77 | 10548 |
| 14MAR93 | 061419 | 062159 | 062939 | 14MAR93 | 20 EL | 276 | 10549 |
| 14MAR93 | 161221 | 161938 | 162654 | 14MAR93 | 17 EL | 83 | 10555 |
| 14MAR93 | 175555 | 180441 | 181327 | 14MAR93 | 60 EL | 285 | 10556 |
| 14MAR93 | 194606 | 195126 | 195647 | 14MAR93 | 6 EL | 297 | 10557 |
| 15MAR93 | 031145 | 031854 | 032602 | 15MAR93 | 13 EL | 68 | 10561 |
| 15MAR93 | 045611 | 050507 | 051403 | 15MAR93 | 80 EL | 279 | 10562 |
| 15MAR93 | 064339 | 064940 | 065542 | 15MAR93 | 9 EL | 282 | 10567 |
| 15MAR93 | 163914 | 164733 | 165552 | 15MAR93 | 35 EL | 87 | 10569 |
| 15MAR93 | 182452 | 183311 | 184130 | 15MAR93 | 30 EL | 287 | 10570 |
| 16MAR93 | 033924 | 034740 | 035555 | 16MAR93 | 27 EL | 74 | 10575 |
| 16MAR93 | 052440 | 053314 | 054148 | 16MAR93 | 41 EL | 273 | 10576 |
| 16MAR93 | 071452 | 071705 | 071918 | 16MAR93 | 1 EL | 288 | 10577 |
| 16MAR93 | 152552 | 153117 | 153642 | 16MAR93 | 7 EL | 77 | 10582 |
| 16MAR93 | 170651 | 171537 | 172423 | 16MAR93 | 70 EL | 90 | 10583 |
| 16MAR93 | 185436 | 190153 | 190910 | 16MAR93 | 15 EL | 292 | 10584 |

0=RETURN, 1=CONTINUE, 2=SCROLL, 7=STEP1

SCHEDULE FOR SATELLITE RS-12/13 FOR NAUH FROM EPOCH 16MAR93 190910 01:33

| DATE | AOS | MAX | LOS | EPOCH | DX/EL | AZ | ORBIT |
|---------|--------|--------|--------|---------|-------|-----|-------|
| 17MAR93 | 022405 | 022908 | 023411 | 17MAR93 | 5 EL | 62 | 10588 |
| 17MAR93 | 040715 | 041607 | 042458 | 17MAR93 | 53 EL | 77 | 10589 |
| 17MAR93 | 055337 | 060117 | 060857 | 17MAR93 | 20 EL | 276 | 10590 |
| 17MAR93 | 155142 | 155859 | 160616 | 17MAR93 | 17 EL | 82 | 10596 |
| 17MAR93 | 173508 | 174354 | 175240 | 17MAR93 | 60 EL | 281 | 10597 |
| 17MAR93 | 192523 | 193043 | 193604 | 17MAR93 | 6 EL | 297 | 10598 |
| 18MAR93 | 025104 | 025812 | 030521 | 18MAR93 | 13 EL | 68 | 10602 |
| 18MAR93 | 043530 | 044426 | 045322 | 18MAR93 | 80 EL | 280 | 10603 |
| 18MAR93 | 062257 | 062859 | 063500 | 18MAR93 | 9 EL | 282 | 10604 |
| 18MAR93 | 161837 | 162656 | 163516 | 18MAR93 | 35 EL | 85 | 10610 |
| 18MAR93 | 180403 | 181222 | 182041 | 18MAR93 | 30 EL | 285 | 10611 |
| 19MAR93 | 031842 | 032658 | 033514 | 19MAR93 | 27 EL | 74 | 10616 |
| 19MAR93 | 050359 | 051232 | 052106 | 19MAR93 | 41 EL | 273 | 10617 |
| 19MAR93 | 065410 | 065623 | 065836 | 19MAR93 | 1 EL | 288 | 10618 |
| 19MAR93 | 150509 | 151034 | 151559 | 19MAR93 | 7 EL | 77 | 10623 |
| 19MAR93 | 164603 | 165438 | 170349 | 19MAR93 | 70 EL | 86 | 10624 |
| 19MAR93 | 183311 | 184109 | 184826 | 19MAR93 | 15 EL | 291 | 10625 |
| 20MAR93 | 020827 | 020827 | 021330 | 20MAR93 | 5 EL | 62 | 10629 |
| 20MAR93 | 034017 | 035525 | 040417 | 20MAR93 | 53 EL | 77 | 10630 |
| 20MAR93 | 053211 | 054031 | 054807 | 20MAR93 | 20 EL | 277 | 10631 |
| 20MAR93 | 153059 | 153816 | 154533 | 20MAR93 | 17 EL | 82 | 10637 |
| 20MAR93 | 171424 | 172315 | 173206 | 20MAR93 | 60 EL | 284 | 10638 |

0=RETURN, 1=CONTINUE, 2=SCROLL, 7=STEP1

SCHEDULE FOR SATELLITE RS-12/13 FOR N4UH FROM EPOCH 20MAR93 173206 01:14

| DATE | AOS | MAX | LOS | EPOCH | DX/EL | AZ | ORBIT |
|---------|--------|--------|--------|---------|-------|-----|-------|
| 20MAR93 | 190439 | 191008 | 191538 | 20MAR93 | 5 EL | 298 | 10639 |
| 21MAR93 | 023022 | 023731 | 024439 | 21MAR93 | 13 EL | 68 | 10647 |
| 21MAR93 | 041448 | 042344 | 043240 | 21MAR93 | 30 EL | 280 | 10644 |
| 21MAR93 | 060216 | 060812 | 061409 | 21MAR93 | 9 EL | 282 | 10645 |
| 21MAR93 | 155754 | 160613 | 161433 | 21MAR93 | 35 EL | 95 | 10651 |
| 21MAR93 | 174319 | 175143 | 180007 | 21MAR93 | 30 EL | 286 | 10652 |
| 22MAR93 | 025801 | 030612 | 031423 | 22MAR93 | 27 EL | 73 | 10657 |
| 22MAR93 | 044317 | 045151 | 050024 | 22MAR93 | 41 EL | 273 | 10658 |
| 22MAR93 | 063329 | 063541 | 063754 | 22MAR93 | 1 EL | 288 | 10659 |
| 22MAR93 | 144426 | 144956 | 145525 | 22MAR93 | 7 EL | 77 | 10664 |
| 22MAR93 | 162524 | 163415 | 164306 | 22MAR93 | 70 EL | 97 | 10665 |
| 22MAR93 | 181309 | 182026 | 182743 | 22MAR93 | 15 EL | 291 | 10666 |
| 23MAR93 | 014242 | 014736 | 015230 | 23MAR93 | 5 EL | 61 | 10670 |
| 23MAR93 | 032552 | 033444 | 034335 | 23MAR93 | 52 EL | 77 | 10671 |
| 23MAR93 | 051214 | 051950 | 052725 | 23MAR93 | 20 EL | 277 | 10672 |
| 23MAR93 | 151016 | 151733 | 152450 | 23MAR93 | 17 EL | 82 | 10678 |
| 23MAR93 | 165341 | 170232 | 171123 | 23MAR93 | 60 EL | 283 | 10679 |
| 23MAR93 | 184355 | 184925 | 185454 | 23MAR93 | 6 EL | 297 | 10680 |
| 24MAR93 | 020941 | 021645 | 022349 | 24MAR93 | 13 EL | 68 | 10684 |
| 24MAR93 | 035407 | 040302 | 041158 | 24MAR93 | 80 EL | 280 | 10685 |
| 24MAR93 | 054134 | 054731 | 055328 | 24MAR93 | 9 EL | 282 | 10686 |
| 24MAR93 | 153711 | 154530 | 155350 | 24MAR93 | 35 EL | 86 | 10692 |

0=RETURN, 1=CONTINUE, 2=SCROLL, 7=STEP1

SCHEDULE FOR SATELLITE RS-12/13 FOR N4UH FROM EPOCH 24MAR93 155350

| DATE | AOS | MAX | LOS | EPOCH | DX/EL | AZ | ORBIT |
|---------|--------|--------|--------|---------|-------|-----|-------|
| 24MAR93 | 172236 | 173100 | 173924 | 24MAR93 | 31 EL | 286 | 10692 |
| 25MAR93 | 023719 | 024530 | 025342 | 25MAR93 | 27 EL | 73 | 10698 |
| 25MAR93 | 042236 | 043109 | 043943 | 25MAR93 | 41 EL | 273 | 10699 |
| 25MAR93 | 061247 | 061500 | 061713 | 25MAR93 | 1 EL | 288 | 10700 |
| 25MAR93 | 142343 | 142913 | 143442 | 25MAR93 | 7 EL | 77 | 10705 |
| 25MAR93 | 160441 | 161332 | 162223 | 25MAR93 | 70 EL | 98 | 10706 |
| 25MAR93 | 175226 | 175943 | 180700 | 25MAR93 | 15 EL | 291 | 10707 |
| 26MAR93 | 012201 | 012655 | 013149 | 26MAR93 | 5 EL | 61 | 10711 |
| 26MAR93 | 030511 | 031402 | 032253 | 26MAR93 | 52 EL | 77 | 10712 |
| 26MAR93 | 045133 | 045908 | 050643 | 26MAR93 | 20 EL | 277 | 10713 |
| 26MAR93 | 144933 | 145655 | 150416 | 26MAR93 | 17 EL | 82 | 10719 |
| 26MAR93 | 163258 | 164149 | 165040 | 26MAR93 | 60 EL | 282 | 10720 |
| 26MAR93 | 182311 | 182841 | 183411 | 26MAR93 | 6 EL | 297 | 10721 |
| 27MAR93 | 014855 | 015603 | 020307 | 27MAR93 | 13 EL | 68 | 10725 |
| 27MAR93 | 033355 | 034221 | 035116 | 27MAR93 | 80 EL | 280 | 10726 |
| 27MAR93 | 052655 | 052649 | 053246 | 27MAR93 | 9 EL | 282 | 10727 |
| 27MAR93 | 151628 | 152447 | 153307 | 27MAR93 | 35 EL | 86 | 10733 |
| 27MAR93 | 170153 | 171017 | 171841 | 27MAR93 | 31 EL | 285 | 10734 |
| 28MAR93 | 021638 | 022449 | 023300 | 28MAR93 | 27 EL | 73 | 10739 |
| 28MAR93 | 040154 | 041027 | 041901 | 28MAR93 | 41 EL | 273 | 10740 |
| 28MAR93 | 055206 | 055419 | 055631 | 28MAR93 | 1 EL | 288 | 10741 |
| 28MAR93 | 140300 | 140830 | 141400 | 28MAR93 | 7 EL | 77 | 10746 |

0=RETURN, 1=CONTINUE, 2=SCROLL, 7=STEP1

TO ROTATE W/O A ROTATOR

K8UR/4—Dennis Mitchell—will give a program at the Charlotte Hamfest (Saturday @ 2:30 PM) on how to work the world competitively without the help of a beam, a rotator or a tower.

Using computerized models, Dennis has designed phased 2 and/or 4 element vertical arrays for 10 thru 80 meters. The 'heart of these systems' is the Switchbox, which is manufactured by ComTek, Inc —owned and operated by K8UR/4 and located in Oriental, NC.

Dennis received a BS degree in physics from the University of Michigan, has been employed in the area(s) of microwave components and semiconductors, was CEO of Microwave Research & Mfg and now resides in Eastern North Carolina, where he competently mixes his hobby with his occupation. Any questions? Just listen to that BIG SIGNAL on 75 during the evenings and mornings.

(WA4VCC)

The INTERNATIONAL DX ASSOCIATION is devoted to the following:

- * To promote goodwill among amateur radio operators of the world.
- * To support and abide by amateur radio rules as set forth by the FCC and other governing bodies.
- * Promote good amateur radio operating practices.
- * Promote and support DX operations in countries having limited or no amateur radio activity. To train local operators if possible.
- * Provide equipment, funds and training material to DX operations.
- * Provide QSLs and act as QSL manager if needed.
- * Provide DX news and QSL routes via our information net conducted on 14.236 MHz at 2330Z and our quarterly newsletter.
- ** You have probably worked a "new one" because of INDEXA's support. A partial list of DX we have helped so far is:

AS CE# D2 D6 FT#W FT#X FT#Z KH1 S# S# ST# TT VK#
VU7 1# 3D2 3W 8A 8U also...Peter 1, Heard Is., Bouvet, S.
Georgia, N. Cook, Malagasy & Mayotte.

Q S L ROUTE INFORMATION::

Many members of CDXA, SEDXC and the cluster often request the QSL route for worked stations on packet. This is a good place to obtain the needed information.

However, if you still need help, try the **INDEXA** information net. You have a better chance of getting the info you need because this is the only purpose of the net. Information only without any DX checking in, no LIST operation and no BS. You may check in to obtain the info you need and also to give the net new good info about DX you have, that would help others.

If you listen long enough, you may be able to provide info that some fellow amateur is looking for which is why we are there.

INDEXA Information net, 14236, starts 2330Z daily for about 2 hours. Staff members are VP2MO, W6CNA, NS6B, N5QGO, KF7SH and KA3HXO.

For further info about membership, contact Bill W4UNP, Gary K4MQG or Murphy W4WMQ.

Tnx & good DX. Murph.

Don't forget CDXA "get-together" during the Charlotte Hamfest. The first is at Trio's on highway 51 at 7PM on Friday night the 12th of March. The second is at Valentino's on Saturday night the 13 of March at 7PM. A \$10.00 fee will be collected at the door on Saturday night to help defray the cost to CDXA.

WA4UNZ 92
Ken Boyd
202 Horseshoe Circle
Fort Mill, SC 29715
|||||